

IV.—*Horary Observations of the Barometer, Thermometer, and Wet-bulb Thermometer, made at Calcutta on the 21st and 22nd of December, 1835, by Mr. H. BARROW, Astr. and Math. Inst.-maker to the H. C.*

[Having ourselves inadvertently omitted the hourly observations appointed by the Meteorological Association at the Cape to be taken on the above day, we are most happy in being able to supply the omission from Mr. BARROW's register. As the Barometer registered monthly at the Assay office stands .014 higher than Mr. B.'s, that quantity must be added to the Bar. indications at 32° (in col. 7) to produce an accordance.—ED.]

The barometer and wet-bulb thermometer were in a large room to the north, the doors and windows of which were open during the whole time. In the reductions* .030 has been used as the constant for capillary attraction, and it is only necessary to add that the barometer is of the mountain construction, with a screw at the bottom to bring the surface of the mercury to zero.

(Calcutta mean time.)

1835. Date.	Hour.	Barome- ter.	Attach- ed Ther- mome- ter.	Wet-bulb Thermo- meter.	Exter- nal Thermo- meter.	Barome- ter re- duced to 32°.	Depression of Wet- bulb Ther- mometer.	Obser- ver.	
21 Dec.	6 A. M.	30,006	65,0	63,0	55,0	29,937	2,0	H. B.	
	7	,024	62,2	61,0		,963	1,2	E. B.	
	8	,038	64,0	62,0	62,0	,972	2,0	H. B.	
	9	,068	66,7	63,0	66,0	,993	3,7		
	10	,070	68,3	63,0	69,5	,991	4,4		
	11	,054	69,8	64,0	71,6	,971	5,8		
	Noon.	,030	70,1	63,9	72,2	,946	6,2		
	1	29,990	70,9	62,5	73,1	,903	8,4		
	2	,974	71,1	62,0	73,2	,887	9,1		
	3	,972	71,6	62,2	73,5	,883	9,4		
	4	,972	71,0	62,1	72,0	,885	8,9		
	5								
	6	,989	69,2	63,7	66,2	,907	5,5		
	7	30,012	68,0	64,5	64,0	,934	3,5		
8	,028	67,0	64,5	63,1	,953	2,5			
9	,037	67,0	64,0	62,0	,962	3,0			
10	,040	66,3	64,0	60,8	,967	2,3			
11	,030	66,0	63,5	59,5	,958	2,5			
22nd.	Midnight.	,016	65,4	63,0	59,1	,946	2,4		
	1								
	2	,000	65,0	63,0	58,0	,931	2,0		
	3	29,984	64,0	62,0	58,0	,918	2,0		
	4	,982	64,0	62,0	57,0	,916	2,0		
	5	,986	62,8	61,8	57,0	,924	1,0	E. B.	
	6	30,012	62,9	61,5	57,0	,949	1,4		
	7	,016	62,2	61,0	57,2	,955	1,2		
	8	,036	63,2	61,8	61,0	,972	1,4	H. B.	
	9	,064	67,0	62,0	66,9	,989	5,0		
	10	,068	69,1	63,5	70,5	,987	5,6		
	11	,040	70,5	63,0	73,0	,954	7,5		
	Noon.	,020	71,9	63,0	74,0	,930	8,9		
	1	,000	72,2	63,0	75,0	,909	9,2		
2	29,980	72,1	63,0	75,3	,890	9,1			
3	,968	72,9	63,9	75,3	,875	9,0			
4	,972	72,3	63,0	73,5	,881	9,3			
5	,977	71,9	63,0	71,0	,887	8,9			
6	30,000	70,5	63,6	67,5	,914	6,9			

* Of column 3, but not of column 7, which is fortunate, as we do not apply any correction for capillarity in our own register.—ED.